

# 2021 Update on New York Domestic Insurers' Management of the Financial Risks from Climate Change

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### **Physical Risks from Climate Change**



Sources: edn Hub, San Antonio Express News

#### Intergovernmental Panel on Climate Change: Sixth Assessment (2021-22)

"The scale of recent changes across the climate system as a whole...are unprecedented over many centuries to many thousands of years"\*

Extreme weather events (storms, heat waves and droughts) more frequent and severe than predicted

Increasingly adverse health impacts

Loss and damage across many economic sectors and ecosystems



### **Transition Risks from Climate Change**

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In partnership with The European Commission



### **Transition Risks from Climate Change**

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Green New Energy

# Renewable Power Costs Rise, Just Not as Much as Fossil Fuels

Costs to build and run new solar and wind facilities are still cheaper than gas or coal plants, BNEF survey finds.



Green Climate Politics

#### Senate Deal's 'Huge' Carbon Cuts Would Keep US Climate Goals Alive

The Inflation Reduction Act would cut up to 1 billion tons of carbon dioxide and get the US closer, but not all the way, to its Paris Agreement target, experts say.

### **National & International Climate-Related Financial Supervision**

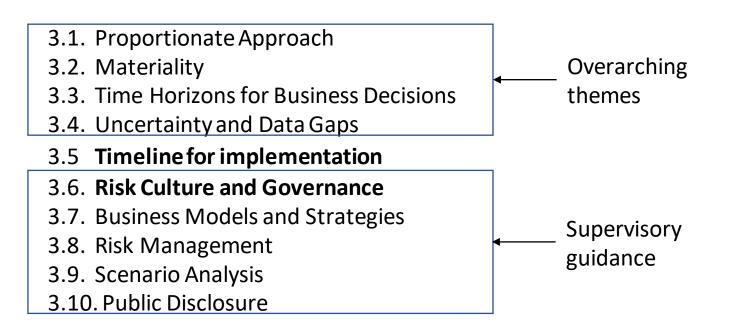
- NAIC Climate & Resiliency (EX) Task Force:
  - Aligned Climate Risk Disclosure Survey with Taskforce on Climaterelated Financial Disclosure (TCFD)
  - Recommended updates to Exam Handbook and ORSA Manual
- International Association of Insurance Supervisors:
  - Established Climate Risk Steering Group
  - Application Paper on the Supervision of Climate-related Risks in the Insurance Sector
- SEC: Proposed "Enhancement and Standardization of Climate-Related Disclosures for Investors"
- **Banking Regulators:** Principles on Management of Climate-Related Financial Risks



Final DFS Insurance Climate Guidance & Implementation Timetable



### **DFS Expectations**





# 3.6.1. Board Governance

- The board should **understand** relevant climate risks.
- Designate a member or committee(s) of the board to be responsible for overseeing climate risks, even if climate risks are not considered material now.
- Designated board member can be at the group or entity level.
- Designate **senior management** as responsible for management of climate risks.
- Board oversight of implementation of public commitments



### 3.6.3. Organizational Structure

- Manage climate risks through **existing** ERM functions
- Clear roles and functions, processes and procedures
- Conduct objective, independent, and regular internal reviews
- Develop climate risk expertise at the board and employee levels
- Consider remuneration to align incentives



### **Reporting to DFS on Implementation**

- Insurer response due 11/30/22.
- Channels of reporting
  - 1. NAIC Climate Risk Disclosure Survey, include **relevant information on Governance.**
  - 2. Request for Information
- Senior management review of responses is expected.



DFS Analysis of NAIC Climate Risk Disclosure Survey Responses



### Methodology

- Same methodology as last year's report
- 5 out of 8 questions analyzed  $\rightarrow$  3 themes
- Covered 85 insurer groups' and 10 unaffiliated insurers' 2021 Survey responses/TCFD reports
- Insurers were rated as "Yet to Start (= 1)," "Early Stage," "Making Progress," or "Good Progress (= 4)."
- Reviewed progress compared to 2020 responses



### **Analysis Framework**

Question
Q3:
<b>Process for</b>
identifying
climate
risks and
impacts on
your
business

ctie

or

Yet to Start **Early Stage** No process in Process of risk place to identification and identify or assessment is in place but unclear assess whether the climate risks. process addresses Identification climate risks, and done ad hoc, details on the process are responsibility insufficient. assigned to a third-party. **Risk identification** and management cover only physical risks or only liabilities for P&C insurers.

**Making Progress** Process of climate risk identification and assessment is in place and imbedded in ERM.

Some information provided on the process, data, and models used, and which business areas or product lines are considered.

**Risk identification and** management cover only physical risks or only liabilities for P&C insurers.

Broad recognition of physical and/or transition risks without linking them to its business.

#### **Good Progress**

Process of climate risk identification and assessment is in place and embedded in ERM and the risk appetite framework.

Details on organizational structure, processes, data, and models are provided.

Describes how assessment of climate risks informs business strategies and risk mitigation strategies.

Impacts of climate risks on branded risk factors beyond operational and reputational risks analyzed.

Risk identification and management cover both physical and transition risks, and both assets and liabilities.

### **Summary of Findings**

- Overall, there was progress compared to prior report, but wide range of sophistication.
  - On average the industry is in the "Making Progress"
  - "Good Progress"= Implemented many Guidance expectations
- Areas for Improvement:
  - Assignment clear roles and responsibilities
  - Formalizing integration into risk management framework
  - Evolving to quantitative assessment of risks
  - Medium to long term scenario analysis



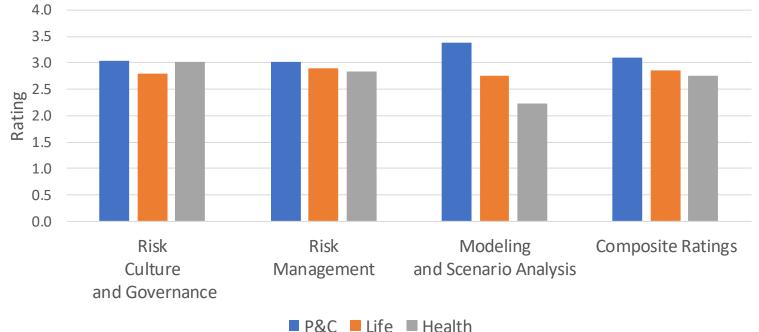
### **DFS Application of Disclosure Materials**

- 1. Understand insurers' status in managing climate risks
- 2. Identify good practices to share with the industry
- 3. Support risk-based supervision
- 4. Verify compliance
- 5. Inform establishment of future timelines

Insurers' ratings are used for DFS's supervisory purposes and not publicly disclosed.

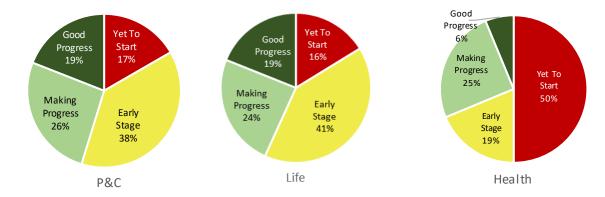


### **Overall Status of Insurers' Management of Climate Risks**

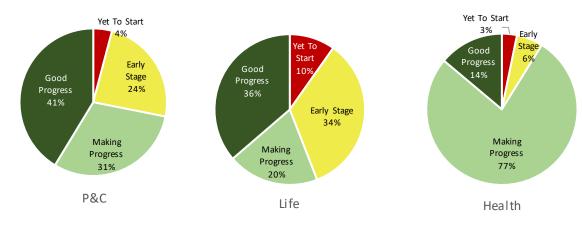


Group Premium-Weighted Ratings for Insurers Across the Three Themes

Composite Ratings Across Insurance Lines



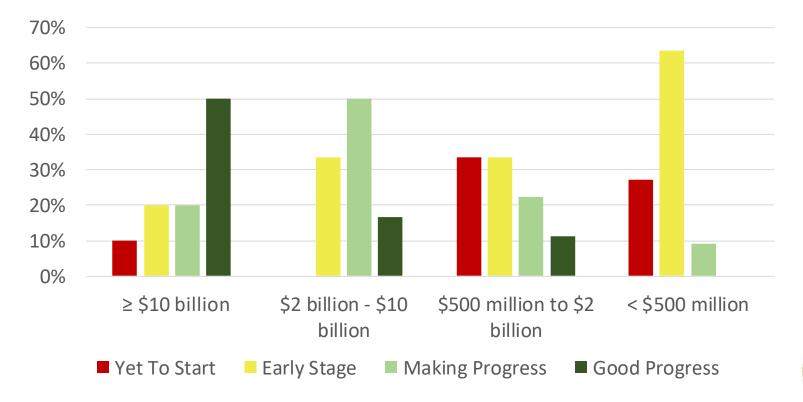
Percentage of Groups/Unaffiliated Companies by Number





Percentage of Groups/Unaffiliated Companies by Group Premium

### **Composite Ratings of P&C Groups/Companies by Size**





### **Rating Changes for P&C Groups/Companies**

70%

60%

50%

40%

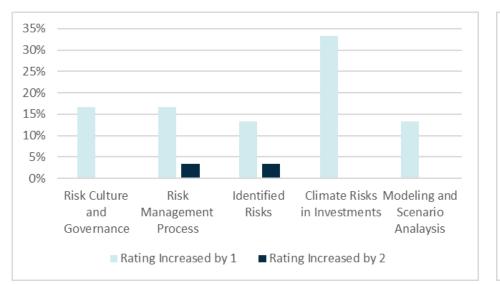
30%

20%

10%

0%

≥ \$10 billion



% of Insurers Whose Ratings Increased by One or Two for the Five Survey Questions % of Insurers Rated Low in 2020 that Had a Rating Increase in 2021 on the Investment Question

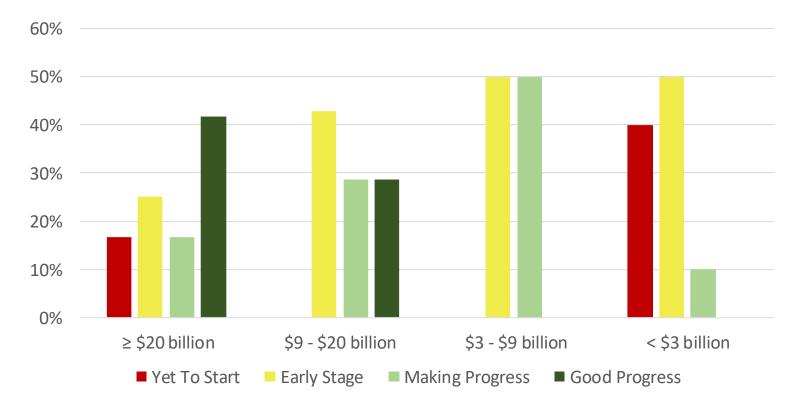
billion

\$2 billion-\$10 \$500 million to < \$500 million

\$2 billion

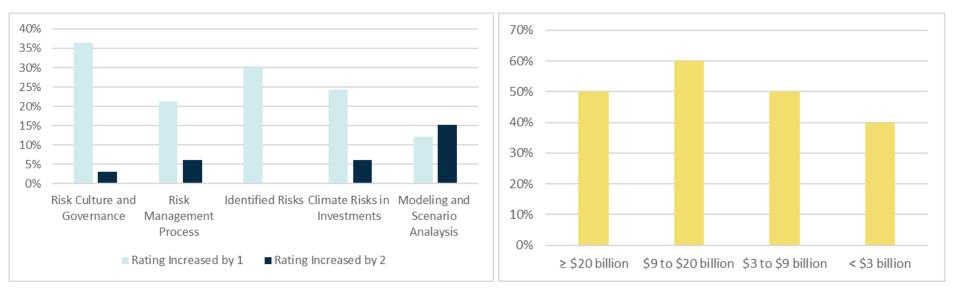


### **Composite Ratings of Life Groups/Companies by Size**





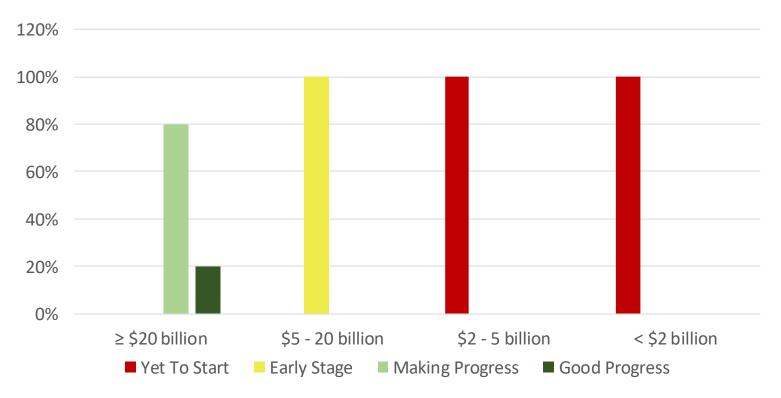
### **Rating Increases for Life Groups/Companies**



% of Insurers Whose Ratings Increased by One or Two for the Five Survey Questions % of Insurers Rated Low in 2020 that Had a Rating Increase in 2021 on the Governance Question

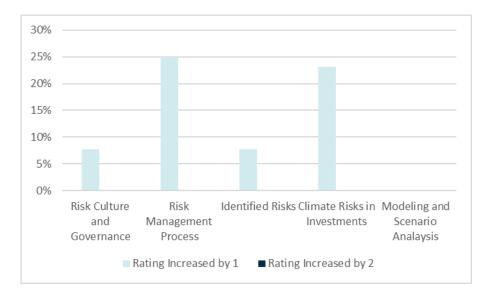


### **Composite Ratings of Health Groups/Companies by Size**

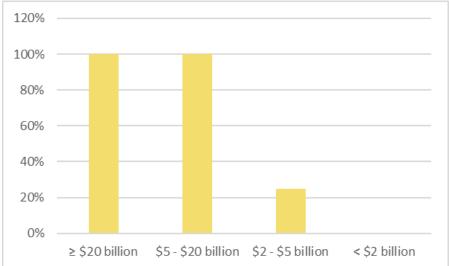




### **Rating Increases for Health Groups/Companies**



% of Insurers Whose Ratings Increased by One or Two for the Five Survey Questions



% of Insurers Rated Low in 2020 that Had a Rating Increase in 2021 on the Risk Management Process

Question



### Examples of Good Practices



More advanced insurers have already taken actions that are aligned with DFS's expectations as set forth in the Guidance.



### **Good Practices in Risk Culture and Governance**

DFS Expectation – Board and senior management structure for climate risks

#### **Example 1**

- **Board committees** designated:
  - Risk, Finance, Investment, Audit, Nominating and Governance
- **Senior management** functions designated:
  - Chief Risk Officer Helps to embed responsibility within ERM function
  - Chief Investment Officer for Life insurers



#### **Example 2 – Cross Functional Committee Structures**

- A health group manages climate risks through the **ERM Committee**, led by its Chief Risk Officer.
- A multiline group established an Emerging Risk Forum
- A medium-sized life insurer established a Sustainability Working Council
- Another medium-sized life insurer established a Climate Risk Working Group



#### **DFS Expectation** – Manage climate risks through existing ERM function

#### Example 3

- A P&C group identifies and assesses climate risk through its ERM program
  - Enabling holistic management of key risks and incorporation of risk and return management into its business model.
- A small P&C group incorporates climate risk into emerging risk processes.
- A medium-sized life group launched effort to enhance enterprise-wide assessment of climate risk.



### **Good Practices in Business Models & Strategies**

**DFS Expectation** – Address climate risks and opportunities strategically

#### Example 4 – Environmental, Social, Governance (ESG) Policy Informs Investment Strategy

- A midsized life group **established an ESG risk framework and policy** setting investment criteria and standards for engagement.
- Another midsized life group believes that integrating ESG factors "leads to better decisions with respect to the sustainability of an investment and its risk and return profile."



#### Example 5 – Climate-Related Opportunities in Underwriting Product Development

- A P&C group expanded product lines
  - Insuring clean tech companies; renewable energy products
  - Enhancing or adding products aimed at increased climate-related regulation
- A multiline group expanded its "Climate Change Resilience Services" advisory team of climate experts.



### **Good Practices in Risk Management**

**DFS Expectation** – Address climate risks through existing ERM functions

#### Example 6

- A health group identifies and assesses its top enterprise risks including climate risks and opportunities as part of the periodic ERM updates.
- A multiline group uses risk dashboards, risk capital allocation and limit consumption reports to identify when climate aspects become material
- A medium-sized life group's **ERM committee** is updated quarterly on **current and emerging risks including climate change**.



#### **DFS Expectation** – Risk Identification and Prioritization

#### Example 7

- A multiline group's ERM function helps identify, assess, quantify, manage, monitor, report and mitigate risk exposures through:
  - Integrated bottom-up risk identification and assessment by product;
  - Annual top-down risk assessment to identify top risks and assign risk owners
- A health group's risk identification process includes an **enterprise risk** framework and risk catalog.



#### **DFS Expectation** – Integration of Control Functions & Three Lines of Defense

#### Example 8

One multiline group addresses climate risk through an overarching **qualitative and quantitative risk reporting and controlling framework:** 

- First Line of Defense: business managers
- Second Line of Defense: independent oversight functions
- Third Line of Defense: independent Audit function



#### **DFS Expectation** – Consider Climate Risks in the ORSA

#### Example 9

- A P&C group adapted climate scenarios from Network for Greening the Financial System to reflect own risk profile.
- A small life group conducted top-down climate stress and scenario testing over **50 years** to:
  - Illustrate potential exposure to balance sheet
  - Evaluate potential effects on strategic and financial position
  - Identify options for managing identified risks and opportunities



### **Good Practices on Modeling and Scenario Analysis**

**DFS Expectation** – Use scenario analysis to inform strategic planning; determine the impact of climate risks on risk profile and business strategy

#### Example 10

- A small P&C group partnered with academic and insurance experts to incorporate assessment of climate risks into modeling.
- A medium-sized life group assessed physical and transition risk impacts over short, medium, and long-term time horizons for its investments.
- A health group consider multiple qualitative and quantitative scenarios.



### **Good Practices on Metrics and Targets**

**DFS Expectation** – Apply quantitative tools and metrics and qualitative statements to help establish boundaries

#### Example 11

. . .

- Set time-bound targets for investments and disclosed metrics:
  - \$ invested in climate solutions
  - Carbon footprint of investment portfolio (in tons of CO<sub>2</sub>/\$)
  - Implied warming potential of the investment portfolio
  - Transition risk cost as % of revenue under various scenarios
  - Loss in real asset portfolio due to physical risks (in % or \$)
  - Climate Value at Risk
- Membership in <u>Net Zero Asset Owner Alliance</u>



### **Good Practices on Metrics and Targets**

- Set time-bound targets for underwriting and disclosed metrics:
  - Threshold of revenue generated from underwriting fossil fuel businesses,
  - Revenue generated from sustainable solution products,
  - Number of sustainable solution products.

Membership in <u>Net Zero Insurance Alliance</u>



### Conclusion

- On average the industry was in the "Making Progress" category, but progress varied across and within lines of businesses.
- Process for verifying compliance with Aug. 15 deadline:
  - 2022 Survey response/ Response to RFI
  - Due Date: November 30, 2022
- DFS will continue to evaluate and support insurers' progress on climate risk management.



# Questions? Feedback?

### Contact: climate@dfs.ny.gov



